TO CORRESPONDENTS.

"*J. R.*"—The height of buildings for the purpose of the Buildings Act is measured from the surface of lowest floor up to underside of the ceiling of joists at story, at the highest part. If no ceiling, to underside of tie-beam or collar beam.

"*A Builder.*"—A stain for dark oaking wood to imitate oak may be purchased at the office of "The Builder." Of the varnish may be stained with asphalte.

"*A. M.*"—We know of no "committee of gentlemen before whom a person can pass an examination and thereby be qualified as a civil engineer, without having served his time with one of the profession."

Received.—"M. Saulé." "W. N." "C. E." "Ernest wrote." "An Honest Englishman." "C. G." "V. V." "Bloomsbury." "W. R." "J. W."

"*Books, Prices, and Addresses.*"—We have not time to point out books or find addresses.

ADVERTISEMENTS.

CHEAP ROMAN CEMENT is sold in Casks that will not contain Five Bushels, even by some manufacturers of a very respectable name. Consumers should see that the standard size cask is 21 inches long by 17½ across the head, outside measure. Any workman with a rule in his pocket can ascertain this.

ATKINSON'S CEMENT. — WILLIAM WOOD, Jun., Manufacturer of Roman, Portland, and Bath Cement, Blue and White Lias Lime Works, CHURCH STREET, ROTHERHITHE, London, Sole Consignee of Atkinson's Cement.

PORTLAND CEMENT.—Testimonials received from all quarters proving this CEMENT to possess the rare property of withstanding the severest frost, and to be consequently superior to every other for hydraulic purposes—such as the Building and Lining of Reservoirs, Cisterns, Baths, Fishponds, &c. For External Plastering and Ornamental Castings, it requires neither Colour nor Paint; it never vegetates, and will carry from three to four times its own body of sand.

Manufacturers, J. B. WHITE and SONS, Millbank street, Westminster.

KEENE'S PATENT MARBLE CEMENT forms an exceedingly hard and indestructible Stucco, which may either be prepared for paint, or finished in imitation of stone, by the addition of Portland or other stone dust.

It is a cheap and efficient substitute in place of wood for skirting, architraves, and other mouldings, in its application for which purpose it obviates the perils of Fire and the attacks of vermin.

Patentees and sole Manufacturers, J. B. WHITE and SONS, Millbank street, Westminster, and Steel street, Liverpool.

GREAVES'S LIAS LIME and CEMENT, BUTT and VEREY, 8, South Wharf, Paddington.

LIAS LIME, as Mortar, is especially adapted for sewers, dock walls, hydraulic, railway, and other works; its adhesive qualities being superior to Roman Cement.

As CONCRETE, it has more power than any other Cement or Lime, as it forms a solid mass—acts as firm as a rock and under water—using one bushel of lime to eight of gravel.

LIAS CEMENT is easily worked of a beautiful stone colour (similar to Portland stone), does not vegetate or crack, hardens by exposure to the atmosphere, and is well adapted for modelling and casting.

MARTIN'S FIRE-PROOF AND ORNAMENTAL CEMENT.

CAUTION.—Messrs. STEVENS and SON, Patentees, beg to caution their friends and the trade generally against confounding this Invaluable Cement with others, erroneously said to be of the same description. S. and S. pledge themselves that MARTIN'S CEMENT is totally dissimilar in composition and manufacture from every other, and being a neutral compound, is not only free from chemical agency upon any substance with which it may come in contact, but completely resists the action of the strongest acids. They feel it a duty to direct attention to the following properties, which it exclusively possesses:—

1. It rapidly acquires the hardness of stone.
2. Unlike other internal concrete, its hardness is uniform throughout its entire thickness.
3. Its surface (which may be made equal to that of the finest marble) NEVER THROWS OUT ANY SALT, and will receive paint in four days, without pearling, when put upon dry work.

It is peculiarly adapted as an internal stucco for walls, skirtings, architraves, ceilings, and enrichments of all kinds, to all of which purposes it has been extensively applied by Mr. Thomas Cubitt, on the Grosvenor estate, &c.

For the above purposes, it possesses great advantages over woods, being more economical and durable, resisting fire, damp, and vermin.

For the floors of halls and fire proof warehouses, its lightness, durability, and uniform surface give it an immense advantage over stone, being, at the same time, much more economical. The most matchless preference can be given. To be had of the Patentees, Plaster of Paris and Cement Manufacturers, 198, DRURY LANE.

Agent for Liverpool and Manchester, Mr. R. PART, 23, Canning-place, Liverpool.

ENGXELL'S PATENT SAFETY REVOLVING WOOD SHUTTERS.

Manufactory, 36, Regent-street, and 120, Chancery-lane.

THE Patentee having fixed a great number of his shutters in London, and given universal satisfaction, can confidently recommend them both for security and durability, the edges being sheathed with Iron. Their construction is so simple that the largest establishment can be opened or closed with the greatest possible ease without the use of machinery. Their superiority over other revolving shutters consists in their great strength and stiffness, being without metal hinges, consequently cannot rust, break, be strained, or get out of order, and are safer. Persons dissatisfied with the pat-nt rising gear now used for Iron shutters can have it removed, and the shutters made to draw up in any part of the premises with the slightest exertion, without machinery, thereby avoiding the unpleasant use of all.

INJUNCTION.

BUNNETT and CORPE'S Patent REVOLVING IRON SHUTTERS.—Since the verdict found in favour of the Patentees, in the Court of Exchequer, in the action tried by order of the Court of Chancery, that Court has granted a perpetual Injunction for restraining all infringements of this Patent, and therefore all parties are hereby cautioned against infringing the same.

THE PRICES ARE GREATLY REDUCED, and BUNNETT AND CORPE'S PATENT IRON SHUTTERS ARE THE CHEAPEST AS WELL AS THE BEST. They are made with convex laths, if required. The worm and wheel motion for raising and lowering revolving iron shutters, as invented by the Patentees, is the only safe and durable mode of effecting that object. In large shutters it is indispensable.

Some thousands of Bunnett and Corpe's Shutters have now been put up, without a single complaint of their want of strength or security; and nine years' practical experience (during which they have adopted every real improvement) enable the Patentees to challenge comparison with any others. They will guarantee all Shutters put up by them to keep in order, and last twice as long as any with plain convex laths.

B. and C. also manufacture REVOLVING WOOD SHUTTERS (the Patent for which has expired), at the same prices as other makers, but greatly superior, being fitted with their patent raising gear, and proper metallic hinges, without which no shutter can be safe or durable.

BUNNETT and CORPE are likewise Patentees and Manufacturers of METALLIC SASH-BARS, MOULDINGS, &c., IN BRASS, COPPER, OR ZINC, FOR SHOP-FRONTS, WINDOWS, SKYLIGHTS, AND VARIOUS OTHER PURPOSES.

Shop-fronts fitted with Iron Shutters, Patent Brass or Zinc Sashes, Plain or Ornamental, handsomely Engraved, Moulded, Sash-board Plates, best Plate Glass, and Internal Brass Fittings of all kinds, as perfect in quality and workmanship, and lower in price than any other house. Contracts taken in Town or Country.

Metal Drawing and Stamping for the Trade.

Offices at No. 26, Lombard-street, London; Works, at Deptford, Kent.

Steam-engines, Sawing, Planing, and Moulding, Cutting-machines on Improved Plans, especially adapted for Builders' purposes, may be seen in operation at the Works.

TO THE IRON TRADE, &c.

MR. WILLIAM HENDRY, late of the Firm of HENDRY and GLOVER, Iron Founders, Drury-lane, begs to inform the Trade that he has CEASED to have any CONNEXION with GLOVER since the 8th day of January last, and that he will not be responsible for any debts that may be contracted since that date.

WILLIAMS'S PATENT SLATE RIDGES and HIPS.—The above article is recommended as the best and the most suitable covering for Ridges and Hips of slated roofs ever invented, possessing a solid look of various sizes, more elegant and durable than lead, and 25 per cent cheaper.—Sold by Messrs. J. and J. SHARP, Slate Merchants, Tooley-street, and Mr. RICHARD COOPER, Slate Merchant, Belvidere road, Lambeth, London.

WORCESTER ENCAUSTIC TILES.—Specimens of these Tiles in great variety, both glazed and unglazed, may be seen, and every information obtained at the London Agents, MESSRS. GREIVE and MELLIER, Marble Wharf, Belvidere-road, near Waterloo-bridge, and MR. SAMUEL CUNDY, Belgrave Wharf, Pimlico.

N.B. The price has been very much reduced since March last. Orders executed as above, or at the works of Messrs. F. ST. JOHN and HARRIS and Co., Palace-row, Worcester.

TO ARCHITECTS, BUILDERS, AND OTHERS.

ENCAUSTIC, VENETIAN, BATH, and other PATENT TILES, and MOSAIC PAVEMENTS, may be obtained in great variety at MINTON and Co.'s Warehouse, 6, Albion place, Surrey side of Blackfriars bridge; and at their Manufactory, Stoke-upon-Trent, Staffordshire.—N.B. Slabs and Tiles for Fireplaces, plain and ornamental; Door Furniture, &c.

TO BRICK AND TILE MAKERS.

THE AINSLIE BRICK AND TILE MACHINE COMPANY (James Smith, Esq. of Deanston, chairman), invite attention to their IMPROVED BRICK and TILE MACHINES which are to be seen at work at Alperton, and at the Company's offices, 139 a, Piccadilly, from 10 a.m. to 5 p.m. Mr. Robert Scrivener, who has been appointed manager in the room of Mr. John Ainslie, will show the Machines at the works at Alperton, which is within a mile of the Sudbury station of the London and North Western Railway, and two miles of the Ealing station of the Great Western Railway; also at the Polytechnic Institution, Regent-street, London.—All communications to be addressed to Mr. WILLIAM GORDON, Secretary, at the office of the Company, London, 139 a, Piccadilly, March 1, 1847.

These Machines may also be seen at Mr. SLIGHT'S, Leith-walk, Edinburgh; Mr. LAWRENCE HILL, 101, Buchanan-street, Glasgow; Mr. ROBERT CHARLES, Mill-hill, Leeds; Messrs. PENN and SON, Pembridge, Staffordshire; and Messrs. DRUMMOND and SON, Dublin.

PAVING, 2s. 9d. PER SQUARE YARD.

Basements, Foot-walks, Malt-houses, Corn Stores, Floors of Warehouses, and every description of Pavement laid down at the above low price, and the work guaranteed.—Apply to JOHN PITT-KINGSTON, PORCEAU'S BITUMEN PAVEMENT OFFICE, 15, WHARF-ROAD, CITY-ROAD.—N.B. Country Agents and Railway Engineers and Contractors supplied with the best bitumen for covering bridges and arches.

SAMUEL CUNDY, Mason and Builder, PIMLICO MARBLE and STONE WORKS, Belgrave Wharf, Pimlico, begs to remind Gentlemen, Architects, and others, that the Business now carried on at the above Works is solely his:—

That ARCHITECTURAL, SCULPTURIC, GOTHIC, and MASONS' WORK in all its Branches, &c., are executed at the cheapest possible charges.

S. C. respectfully solicits a continuance of the kind favours of all those who have hitherto done business with him, and invites others, in Town and Country, to favour him with their patronage, as his system of doing business would be found highly advantageous.

CAEN SUFFERANCE WHARF, ROTHERHITHE

LUARD and BEEDHAM beg to inform Architects, Surveyors, Builders, and others, that they have removed from Norway Wharf, Greenwich, the whole of their Caen Stone business, to the above extensive premises, where a large Stock will be kept up by continual fresh arrivals from their quarries at Allemagne. Orders received at the wharf, and further particulars may be obtained of MR. GEORGE GATES, 18, Southwark square, Borough, London.

Orders shipped direct from Caen to any port.

The Waterman Steamboats sail at Lavender-pier, adjoining Caen Wharf.

ANSTON QUARRIES.—Messrs. Wm. WRIGHT and Co. beg to inform Architects, Engineers, Builders, Stone Merchants, and Others, that they have opened QUARRIES in the land adjoining those of Messrs. Grissell and Peto, and are ready to supply any quantity of stone on the shortest notice.

This VALUABLE STONE, so celebrated for its durability, colour, and texture, is well known, having been selected in preference to all other in England, by the Commissioners of Woods and Forests for building the New Houses of Parliament. Facilities are at hand for forwarding the stone to any part of the kingdom.

Application to be made to Messrs. Wm. WRIGHT and Co., Anston, near Sheffield, Nottinghamshire.

SLATE SLABS.—The Finest Slabs produced in WALES, of amazing strength, pure in texture and free from spar, are the land of Mr. MAGNES, at the PIMLICO SLATE WORKS, Upper Belgrave place, planed both faces at the price that inferior Slabs in the rough self-faced are currently selling. These reduced prices are also subject to a very large trade discount. These Slabs have been extensively used at Buckingham Palace, Naval Architecture, the Royal Naval and Military Schools, Deptford, the Model Prison, Pentonville, the Goulstone square Baths and Washhouses, on most of the Railways, and are specified for by the most eminent architects. Whole cargoes supplied direct from Mr. Magnes's Works in Wales, planed both faces, at very low rates. Slate Vanes, Pitings for Dairies, Larders and Wine Cellars, Laundries, Cantilevers, Chimney Pieces, &c. &c.

ARCHITECTURAL ENRICHMENTS.

BIELEFELD'S IMPROVED PAPIER MACHÉ, which has been almost universally adopted for architectural decoration, has been patronised by her Majesty, by the Honourable Commissioners of Board of Works, by the highest of the nobility and gentry, and by the most eminent architects of the day. It has been used at the royal palaces, as the present House of Lords at Dublin Castle, at Drayton Manor, the new Conservative Club House, Grocers' Hall, &c., also at the British Museum and Pantheon Bazaar, where it has been extensively used for some years, and an inspection will so fully establish its superiority over every other kind of composition, both for beauty and durability. Designs prepared for the decoration of ceilings, panelling of walls, &c. A volume of enrichments, containing more than 1,000 designs of the papier maché ornaments, with a large price £1—Works, 15, Wellington Street North, Strand.

PAPIER MACHÉ and CARTON PIERRE.

Just published, a LITHOGRAPHIC VIEW of IRONMONGERS' HALL, Fenchurch-street.

The spacious Thanksgiving Hall of the Worshipful Company of Ironmongers having been confided to Messrs. JACKSON and SONS for redecoration, they have carried out the whole of the rich dressings of Ceiling, Walls, Dado, Orchestra, and the various parts in the Elizabethan style, in their PAPIER MACHÉ and CARTON PIERRE. The ceiling is richly designed with beams and sunk or coved panels with pendants, strap work, &c., the whole humbed to colour and gold; the walls have a rich high dado with the arms, the grade, and period of office of the Masters and other eminent members of the Company, chronologically arranged from the time of Edward IV. The orchestra, principal entrance, Master's end, are also appropriately enriched.

A large Lithographic View of this Interior is now published and ready for sale, at their Papier Maché and Carton Pierre Factory, 49 and 50, Rathbone-place, price 7s. 6d.

PREPARED FLOORING BOARDS.

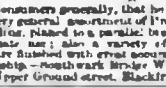
ALWAYS on SALE, a Large Assortment of DEY PREPARED FLOORING BOARDS, and MATCHED BOARDING of all sorts planed to a parallel width and thickness, from ¼ inch to 1¼ inch thick.

TIMBER, DEALS, OAK PLANKS, SCANTLINGS, SASH MILLS, &c.

Apply at W. CLEAVE'S Timber Yard, Wilton-road, Pimlico (late C. Moore and Son).

ALFRED ROSLING begs to inform the Trade and Consumers generally, that he keeps constantly in stock a large and very general assortment of Prepared Floor Boards and Matched Boarding, planed to a parallel breadth and thickness, and fit for immediate use; also a variety of machine-prepared Mouldings, which are finished with great accuracy and attention to quality of workmanship.—South-wark Bridge Wharf, Bankside, and Old Barge Wharf, Upper Ground street, Blackfriars.

T. ADAMS (from Byron and Co.), late S. Dare, MAHOGANY and TIMBER MERCHANT, Bermondsey New Road, near the Brocklayers' Arms, SEASONED FLOORING, MATCH-BOARDING FIT FOR IMMEDIATE USE, and MOULDINGS prepared by machinery.—All kinds and Scantling of every dimension. Mahogany, Cedar, Rosewood, Wainscot, Elm, Beech, Teak, &c., in planks, boards, veneers, and logs; Pantile, Oak, and Fir Laths; Wheelwrights' Goods. All sawn and prepared goods delivered free of expense (except timber), sawing charged at mill prices. Very extensive Drying Sheds.

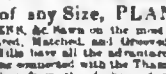


SAW MILLS, GILLINGHAM-STREET, PIMLICO.

TIMBER of any Size, PLANK, DEALS, and BATTENS, &c. Sawn on the most approved principle. Boards, &c., Prepared, Matched, and Grooved, by Muir's Patent Machinery. The Mills have all the advantages of navigation and water-carriage, being connected with the Thames by the Grosvenor Canal. Goods landed from the docks and carted home free of charge.

Address to HENRY SOUTHAM, Saw Mills, Gillingham-street, Pimlico.

N.B. Estimates given for Sawing and Planing.



WOOD THOROUGHLY SEASONED IN DAYS INSTEAD OF YEARS BY DAVISON AND STEVINGTON'S PATENTED PROCESS.

THE Patent Desiccating Company beg to inform Architects, Builders, Cabinet Makers, Coach Builders, Ship Builders, and others, that their establishment for seasoning, sawing, and planing wood, known as the Bread Street Mills, immediately adjoining the Commercial and East County Docks, Rotherhithe, has commenced working. The sawing and planing will be done at the usual charges, and in the best possible manner. The new process of seasoning ensures the entire removal of moisture, hardens the gums, prevents further shrinkage (no matter how warm the temperature or hot the climate), strengthens the fibre, thus giving greater rigidity and compactness to the material, all of essential importance for floorboards, doors, shutters, and similar work. For licenses to work the patent, sale of prices, or any further information, address, post-paid, or apply to W. H. TANQUERAY, Secretary, at the temporary offices of the Company, 28, New Broad-street, City.

N.B.—If it has been satisfactorily ascertained that what are termed two-years'-seasoned flooring boards, contain from 8 to 10 per cent of moisture, causing a shrinkage of one-eighth of an inch in the width of the board, which is obviated by the new process.

LADDERS, BARROWS, &c.

GELL respectfully invites the attention of Railway Contractors, Builders, Decorators, and the Trade in general, to the extensive assortment of Ladders, Barrows, Machines, Screens, Steps, &c. he has on hand ready-made, at very low scale of Prices; and to save selling, Excavators' Barrows, of ash frames and elm tops, as low as 12s. 6d.; a quantity being taken; and the best make of steel ash frames, stays to iron, inch elm top, largest size, as low as 15s. for cash; Ladders commencing at 4d. per round. Every other description of Barrow and Ladder equally low.

G. GELL'S MANUFACTORIES, 5 and 6, Tottenham-court, New-road, St. Pancras, opposite Hampstead-road.

THE most perfect DRY GAS-METER in the World.—T. DEFRIES, Dry Gas Meter-maker, in direction of the attention of the Public and the Trade generally to his having just erected an extensive Factory, in Hampstead-road, in conjunction with his old-established premises, 67, St. Martin's-lane, begs to say that he can now MEET any DEMAND for METERS from 5 lights to 1,000. The sale of 10,000 meters and the rapidly increasing demand since, so completely prove that eight years' experience has proved to be unaffected by weather, by time, or by injurious gas. He invites attention to the fact of many of his large meters being in successful action at the Houses of Parliament, the Royal Dockyards, the Thames Tunnel, Theatres, Churches, Club houses, &c., and has powerful and flattering testimonials at either factory, which may be obtained on application.

LESLIE'S PATENTS.—GAS CONSUMERS guaranteed the following important sanitary and economic advantages:—

1. His BURNERS are purposely MADE TO DETECT FOUL GAS, so injurious to health, so destructive of property, and so expensive to the consumer; the expense and danger increasing with the impurity.

2. His new Patent GLASS CONSUMPTION CHAMBERS are made in order for the MORE PERFECT PRODUCTION OF LIGHT, from either three, four, or five cubic feet of gas per hour, according to the requirement of light by the consumer, all of which are applicable to one and the same burner of twenty-eight inches.

3. These philosophical arrangements produce an IMMENSE INCREASE OF LIGHT, from any usual quantity of Gas, over every burner yet offered to the public; and over the Flat-wick and Bat-wings the increase of light is above ten per cent.

4. His new Patent AUTOMATON GAS ECONOMISER effectually PREVENTS the WASTE, NUISANCE, and EXPENSE arising from sudden variations in supply from the gas mains, and renders the Burners Light-producers, and not Smoke-producers: these will vary in price according to the duty they have to perform, from 9s. upwards.

PRICES.—Cornish Burners, with Cornishman Spring Glass Holders, with other sized glass, Consumption Chamber included, 7s. each; Side Burners, 4s. each; extra Glass Consumption Chambers, 2d. each. SAMPLE PACKAGES, with one burner and a set of the glass consumption chambers, will be forwarded on receipt of a Post-office order (payable to JOHN LESLIE, at the Charing Cross office, for 10s. if a side burner, or 15s. if the upright be desired.

LESLIE'S PATENT FOR ECONOMY OF FUEL AND VENTILATION.

Coal Consumers, with all the advantages of an open, cheerful fire, are guaranteed a saving of 30 per cent, with a beautiful system of ventilation always in operation. Licenses will be granted by the Patentee, One Guinea each Stove, with full instructions to Builders and others to erect. The construction is entirely of brick and iron, and an economical space and materials, than the whole expense will not exceed the present unpleasant chimneys and fire places.

Offices and Manufactories, 38, Conduit-street, London.

WOOD and STONE CARVINGS.—Manufactory, 4, Regent-street, Cambridge.—Wood or Stone Carvings, and Church Furniture in all their branches. Beading Pulpits, Screens, Lecterns, Fonts and Font Covers, Reading and Litany Desks, Communion Tables and Railings, Seats, Altar Chests, Standards, Poppy Heads, Chairs, String Courses, Bosses, and all kinds of Screen in Wood and Stone, and every description of wood work required in ecclesiastical edifices executed by J. RATTEE, whose chief study is to execute all orders intrusted to him in a superior manner, with strict attention to economy. He is also now working with considerable saving machinery, by which he executes all kinds of Antique and Fretal Turning, at prices hitherto unparalleled.